

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 12-410

PROJECT INFORMATION

Project Title: 532 Water Redevelopment

Region and Game Management Unit: Region 4 / Game Management Unit 43B

Local Habitat Partnership Committee (LHPC):
• SW HPC

Was the project presented to the LHPC?
YES[X] **NO**[]

Has this project been submitted in previous years? **YES**[X] **NO**[]

If Yes, was it funded? **YES**[] **NO**[X] → **Funded HPC Project #(s):**

Project Type: Water redevelopment

Brief Project Summary:

The existing ring tank system is leaking from the liner and the tank and water to this remote site is being maintained by a temporary 2500 gallon tank. A new PVC system with walk in drinker needs to be installed to restore reliable water to local wildlife. Additionally, the existing barbed wire fence is in disrepair and water is accessible by the large wild horse and burro population on YPG. This barbed wire fence should be replaced with wildlife friendly, livestock enclosure fencing.

Big Game Wildlife Species to Benefit: Bighorn sheep, mule deer

Implementation Schedule (Month/Day/Year):

Project Start Date:

Winter 2013- Spring 2014

Project End Date:

Winter 2013-Spring 2014

Environmental Compliance:

NEPA Completed: Yes[] No[] N/A[X]

Projected Completion Date: _____

State Historic Preservation Office - Archaeological Clearance:

Yes[X] No[] N/A[]

Projected Completion Date: _____

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Joe Currie, Alicia Nemlowill

Projected Completion Date: Fall 2013

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 27,064

Cost Share or Matching Funds: \$ 7,258

Total Project Costs: \$ 34,322

PARTICIPANT INFORMATION

Applicant (please print):
Alicia Nemlowill

Address:
9140 E. 28th Street
Yuma, Arizona 85365

E-mail:
anemlowill@azgfd.gov

Telephone: 928-856-0718

Date: 8/31/2012

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with:

Yuma Proving Grounds, Arizona Desert Bighorn Sheep Society

NEED STATEMENT – PROBLEM ANALYSIS:

A ring tank system was installed in this location in the 1950's. Recently this system has failed and does not reliably store water. Water is leaking from the side seam of the ring tank and the liner. Water to this site is being maintained by a 2500 gallon temporary tank. This water development is located in a very remote area that is difficult to access and haul water to. The failure of the ring tank system and the low capacity of the temporary tank have caused an increase in manpower and maintenance costs just to maintain water. There have been issues with the reliability of the temporary tank. Leaks in this system, although repaired as noted, make it unreliable. A new system needs to be installed to reliably provide water in this location as well as reduce the amount of manpower hours and maintenance costs currently being incurred to provide water at this one location. Additionally, the existing barbed wire fence is in disrepair and water is accessible by the large wild horse and burro population on YPG. This barbed wire fence should be replaced with wildlife friendly, livestock enclosure fencing.

This water development is located between two critical sheep waters that can be unpredictable in the summer months. Increasing costs of waterhauling, makes maintaining water in these potholes challenging at times. Cultural issues in the immediate vicinity of one of the potholes, has made it difficult to conduct improvements on the pothole that would allow for increased storage and prohibit use of the water by wild horses and burros. This water development has the potential to serve as an alternative source of water for bighorn sheep in the Trigo Mountains. Water can be hauled to this water development without the use of a helicopter.

PROJECT OBJECTIVES:

Restore a reliable, low maintenance water source for deer, big horn sheep and small game in an existing location. Maintain a reliable, alternative water source for bighorn sheep in the Trigo Mountains. Reduce costs associated with frequent water hauling and maintenance for this system.

PROJECT DESCRIPTION AND STRATEGIES:

We proposed to dig a trench 120 feet long by 13 feet wide to a depth of 3 feet adjacent to the existing ring tank system within the existing footprint. Two foot diameter PVC pipe will be buried in the trench and will provide necessary storage tanks. A walk-in drinker will be connected to the storage pipes. A new collection point will be installed. Additionally, the existing barbed wire fence will be replaced with wildlife friendly, livestock enclosure fencing to prevent the local population of wild horses and burros from accessing the water.

PROJECT LOCATION:

This water development is located in the Trigo Mountains, along Crazy Woman Wash on Yuma Proving Grounds. (33° 19.137' N 114° 31.76' UTM 11S 729974mE 3689408mN)

LAND OWNERSHIP AT THE PROJECT SITE(S):

This project is located on U.S. Military land operated by the Yuma Proving Grounds. Portions of YPG are open to general hunting activities, while additional areas are restricted to the take of bighorn sheep only. The area where this project is located is open to bighorn sheep hunting.

HABITAT DESCRIPTION:

Sonoran Desertscrub

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

24 pieces of 2 foot PVC pipe (120 ft)- \$15,445
Standard Fiberglass Walk in drinker (3'd x 4'w)- \$3,623
4-24" End Caps with 2" outlet- \$1,376
4-24" End Caps-\$1,230
Plumbing (Pipe, Fittings, Misc)- \$1,000
Wildlife Friendly Livestock Exclosure Fence- \$3,390
Arizona Department of Water Rights Permit- \$1,000

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

Volunteer Labor to Complete Project (Hours and Mileage)- \$7,258

Yuma Proving Grounds staff completed archeological clearances and will complete local environmental documents.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Archeological surveys and archeological clearance through the State Historic Preservation Office were conducted in 2011 by Yuma Proving Ground staff. Yuma Proving Ground staff will also complete local environmental documents required by YPG to execute this project.

Volunteer labor to complete the project is expected from Sportsman organizations.

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES[] NO[X] N/A[]

PROJECT MONITORING PLAN:

This water development is monitored by the district wildlife manager throughout the year. The water is checked at a maximum 30 day interval between May and October and periodically throughout the winter months.

PROJECT MAINTENANCE:

This water development is maintained by the district wildlife manager and Region 4 water program as needed.

PROJECT COMPLETION REPORT TO BE FILED BY:

Alicia Nemlowill, AGFD

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT TITLE: 532 Water Redevelopment

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joseph Currie- 7/19/2011, 8/31/2012
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
☒2-4 ☐4-6 ☐6-8 ☐8-10 ☐10-12 ☐12-14 ☐14-16 ☐ >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
YES ☐ (please complete #5 below) NO ☒ (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Colorado River
Type of water source (catchment, spring, dirt tank): River
Ownership of water source: Federal
Distance in miles from project: 10 miles
- 6) **Is the target wildlife species a result of transplant efforts?** YES ☐ NO ☒
However, one of the target wildlife species, bighorn sheep, is a source population for transplants to other areas.
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
Land is owned by the U.S. Military and operated by the Yuma Proving Grounds.
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): ☐2x4 vehicles ☒4x4 only ☐foot only**

 **If foot access only: Distance in miles: _____ Approximate hiking time: _____

-- Does access to this site require crossing private or tribal lands? YES ☐ NO ☒

-- Please describe any restrictions to public access:

Prior military clearance is required to access this area. Hunters must view a safety presentation and obtain an access permit and clearance from YPG prior to taking wildlife in this area.
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
24 pieces of 2 foot PVC pipe (120 ft)- \$15,445
Standard Fiberglass Walk in drinker (3'd x 4'w)- \$3,623
4-24" End Caps with 2" outlet- \$1,376

4-24" End Caps-\$1,230

Plumbing (Pipe, Fittings, Misc)- \$1,000

Wildlife Friendly Livestock Exclosure Fence- \$3,390

Arizona Department of Water Rights Permit- \$1,000

10) Was a site visit completed? Yes[X] No[]

If Yes, please list personnel that attended and date.

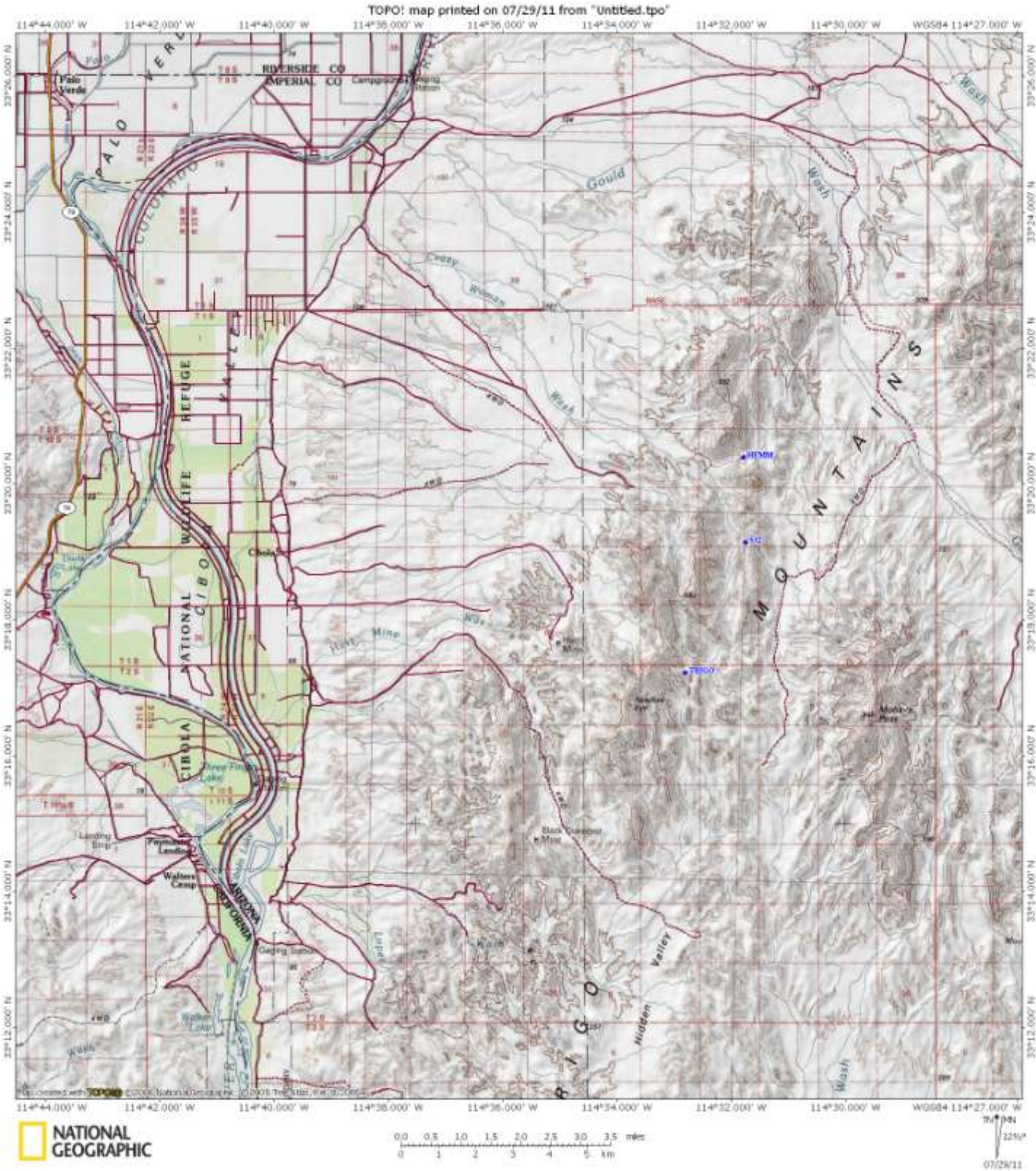
John Hervert, Regional Game Specialist

3/8/2011- YPG staff including John Glover (Hunting Access Program Coordinator), Karla James (Archeologist), Laura Merrill (Biologist), AGFD Wildlife Manager Alicia Nemlowill

8/20/2012- Arizona Desert Bighorn Sheep Society- Ignacio Beltram, John Clemons, Bill Luffy, AGFD Wildlife Manager Alicia Nemlowill.



We propose to dig a trench 120 feet long by 13 feet wide to a depth of 3 feet along the path marked by red flags. Two foot diameter PVC pipe will be buried in the trench and will provide the necessary storage tanks. A walk-in drinker will be connected to the storage pipes in the foreground of the picture. The drainage directly behind the Palo Verde tree in the center of the photo will be used to collect surface water.



Photographs of Sheep using Drinker- Summer 2011



ARIZONA GAME AND FISH DEPARTMENT

VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

PROJECT TITLE: 532 Water Redevelopment

The value of volunteer labor should be calculated at the hourly rate of an employee doing similar work, or using hourly rates from the Arizona Department of Administration's Human Resource web site, plus a standard ERE rate of 35%. http://www.hr.az.gov/HR_Professional/Class_Comp/PDF/alphacovered.pdf

\$0.445/mile should be the calculation used for mileage.

Water Development	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
	\$5,656	\$1,602	\$14.14	\$7,258
Habitat Restoration and Clean Up	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Fisheries	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Nongame Branch Project	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Misc/office work	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			varies	
Community Services	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$7.44	
Events and Other	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Research Branch	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Wildlife Area Hosts	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$17.44	
Education Programs	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$16.07	
Totals	\$5,656	\$1,602		\$7,258